



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460**

**OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION**

July 20, 2022

Arianna Shorey  
Regulatory Consultant for UPL NA, Inc.  
c/o Pyxis Regulatory Consulting, Inc.  
4110 136<sup>th</sup> St. Ct. NW  
Gig Harbor, WA 98332

**Subject:** Notification per PRN 98-10 – Update company name, address and contact information, EPA registration number and warranty information, and minor typographical updates  
Product Name: AMICARBAZONE WDG HERBICIDE  
EPA Registration Number: 70506-448  
Application Date: December 15, 2021  
Decision Number: 583865

Dear Arianna Shorey:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10. The label submitted with the application has been stamped “NOTIFICATION” and placed in our records.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If you have any questions, please contact Endia Blunt at 202-566-2505 or at [blunt.endia@epa.gov](mailto:blunt.endia@epa.gov).

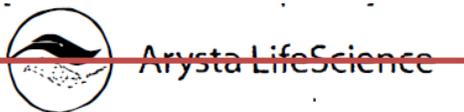
Sincerely,

A handwritten signature in cursive script that reads "Mindy Ondish".

Mindy Ondish  
Product Manager 23  
Herbicide Branch  
Registration Division (7505T)  
Office of Pesticide Programs

{Note to reviewer: [Text] in brackets denotes optional text. {Text} in braces denotes where in the final label text will appear and notes to reviewer.} [Text in brackets is optional]

**GROUP 5 HERBICIDE**



**NOTIFICATION**

70506-448

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

07/20/2022

**AMICARBAZONE WDG HERBICIDE**

**{[Alternate Brand Name:]} [DINAMIC® 70WDG HERBICIDE]**

**{[Alternate Brand Name:]} [XONERATE® HERBICIDE]**

For Broadleaf and Other Weed Control in Field Corn and Corn Grown for Silage.  
For Selective Control of Weeds in Turf on Golf Courses, Sod Farms, Residential and Commercial Turf Sites, Park and Recreation Areas, School Grounds and other Turf Areas and Conifers in Nurseries and Field Plantings (including Christmas Trees)

**INGREDIENTS: By Wt.**

Active Ingredient

Amicarbazone:

4-amino-N-(1,1-dimethylethyl)-4,5-dihydro-3-(1-methylethyl)-5-oxo-1H-1,2,4-triazole-1-carboxamide ..... 70%

OTHER INGREDIENTS: ..... 30%

TOTAL: ..... 100%

Read the label before use

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION/PRECAUCIÓN**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand this label, find someone to explain it to you in detail.)

**See [back][side] Panel for First Aid Instructions and [Leaflet][Booklet] for Complete Precautionary Statements and Directions for Use or See [inside] [attached] Booklet for [additional] [complete] First Aid, Precautionary Statements and Directions for Use.** [~~See back panel for additional precautionary statements~~]

<b>FIRST AID</b>	
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with warm water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p><b>Note to physician:</b> No specific antidote is available. Treat the patient symptomatically. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p>	
<p><b><u>FOR 24-HOUR MEDICAL EMERGENCY ASSISTANCE CALL PROSAR:</u></b> <u>1-866-303-6952 or 1-651-632-8946</u></p>	
<p><b><u>FOR 24-HOUR MEDICAL EMERGENCY ASSISTANCE CALL ROCKY MOUNTAIN POISON AND DRUG SAFETY:</u></b> <u>1-866-673-6671.</u></p>	
<p><b>FOR 24-HOUR CHEMICAL EMERGENCY <u>(Spill, leaks, fire, exposure or accident)</u></b> <b>CALL CHEMTREC:</b> <u>Spill, Leak, Fire or Accident 1-800-424-9300 or +1-703-527-3887.</u></p>	
<p><b>For Product Information Call: 1-866-761-9397</b></p>	

For Product Use Information Call 1-800-438-6071

EPA Reg. No. ~~66330-46~~70506-448

EPA Est. No.:

[xxxxxxV00x]

NET WEIGHT:

[Batch Code will be placed on the container.]

**Produced for:**

**ARYSTA LIFESCIENCE NORTH AMERICA, LLC**

**15401 Weston Parkway, Suite 150**

EPA Reg. No. ~~66330-46~~

**Cary, NC 27513UPL NA Inc.**

**630 Freedom Business Center, Suite 402**

**King of Prussia, PA 19406**

EPA Est. No. \_\_\_\_\_

Net Weight: \_\_\_\_\_

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION**

Harmful if swallowed. Causes moderate eye irritation. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Avoid contact with eyes or clothing.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves (made of any water proof material)
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

**ENGINEERING CONTROL STATEMENT**

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR §170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**USER SAFETY RECOMMENDATIONS**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water when disposing of equipment washwaters or rinseate. Do not use the same spray equipment for other purposes unless thoroughly cleaned.

Do not allow sprays to drift onto adjacent desirable plants. Drift or runoff may adversely affect non-target plants.

**AMICARBAZONE WDG HERBICIDE** has properties which may result in ground water contamination. Use of **AMICARBAZONE WDG HERBICIDE** in areas where soils are permeable and groundwater is near the surface should be avoided.

To prevent damage to crops and other desirable plants, read and follow all directions and precautions on this label before using.

**GROUND WATER ADVISORY**

Amicarbazone and its major degradates are known to leach through soil into ground water under certain conditions as a result of label use. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

**SURFACE WATER ADVISORY**

This product may contaminate surface water via runoff of rain water or drift of spray in wind. This product is classified as having a high potential for reaching surface water via runoff several months or more after application. A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of Amicarbazone and its degradates from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Sound erosion control practices will reduce this product's potential to reach aquatic sediment via runoff.

This product may not be mixed or loaded within 50 feet of any wells (including abandoned wells and drainage wells), sink holes, perennial or intermittent streams and rivers and natural or impounded lakes and reservoirs. This setback does not apply to properly capped or plugged abandoned wells and does not apply to impervious pad or properly diked mixing/loading areas.

Operations that involve mixing, loading, rinsing or washing of this product into or from pesticide handling or application equipment or containers within 50 feet of any well are prohibited unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or washwater and rainwater that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to

contain at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above specific minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading site. States or local tribes may have in effect additional requirements regarding wellhead setbacks and operational containment. State, Local, or Tribal regulations may be more restrictive than those listed on this product label. The most restrictive requirements must be followed.

This product must be used in a manner which will prevent back siphoning in wells, spills or improper disposal of excess pesticide, spray mixtures or rinsates.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about Personal Protective Equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

**Do not enter or allow worker entry into treated areas during the Restricted Entry Interval (REI) of 12 hours following application.**

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, wear coveralls, chemical-resistant gloves (made of any waterproof material), and shoes plus socks.

### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter or allow people (or pets) to enter the treated area until sprays have dried.

Read these entire **DIRECTIONS FOR USE** and **WARRANTY AND DISCLAIMER STATEMENT** before using this product.

### PRODUCT INFORMATION

**AMICARBAZONE WDG HERBICIDE** is a selective herbicide for control of important annual broadleaf weeds in field corn and corn grown for silage.

**AMICARBAZONE WDG HERBICIDE** is a selective, postemergence herbicide that may be used for the control of certain weeds in established turfgrasses. It also has preemergence activity on certain weed species at rates of 5.0 to 10.0 oz **AMICARBAZONE WDG HERBICIDE/A**.

**AMICARBAZONE WDG HERBICIDE** is formulated as a 70% water dispersible granule (WDG) herbicide. **AMICARBAZONE WDG HERBICIDE** is for use in either conventional, conservation or no-tillage crop management systems and is for application to preplant surface, for preplant incorporation (mixed into the top 1 to 2 inch layer of soil), pre-emergence and post-emergence. **AMICARBAZONE WDG HERBICIDE** will provide its most effective weed control when applied and subsequently moved into the soil by rainfall, sprinkler irrigation or mechanical tillage prior to weed emergence. **AMICARBAZONE WDG HERBICIDE**'s mode of action is inhibition of photosynthesis at photosystem II.

Apply **AMICARBAZONE WDG HERBICIDE** either alone, in tank-mix combinations with, or sequentially prior to or after additional herbicides. When tank-mixing, always observe all precautionary statements and limitations on labeling of all products.

**AMICARBAZONE WDG HERBICIDE** can be applied using either water or sprayable grade fluid fertilizer as a liquid carrier, or by impregnating on dry bulk fertilizer.

In turf applications, water is the recommended liquid carrier for **AMICARBAZONE WDG HERBICIDE**.

## **RESISTANCE MANAGEMENT**

For resistance management, **AMICARBAZONE WDG HERBICIDE** is an Herbicide Resistance Action Committee (HRAC) Group C<sub>1</sub> Herbicide, a photosynthesis II inhibitor (Weed Science Society of America (WSSA) Group 5). Any weed population may contain or develop plants naturally resistant to a herbicidal mode of action. Resistant biotypes can eventually dominate the weed population if herbicides with an identical mode of action are used repeatedly on the same site. If this happens, control of resistant biotypes will not occur unless a herbicide with a different mode of action is utilized. Whenever possible, tank-mix or rotate the use of **AMICARBAZONE WDG HERBICIDE** with herbicides that have a different mode of action.

**AMICARBAZONE WDG HERBICIDE** will not control triazine-resistant (atrazine, simazine, metribuzin) weeds.

Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. The use of **AMICARBAZONE WDG HERBICIDE** should conform to resistance management strategies established for the use area. Consult with your chemical dealer, consultant, extension turfgrass specialist or agricultural advisor for resistance management strategies for your area.

**Read the entire DIRECTIONS FOR USE before using AMICARBAZONE WDG HERBICIDE.**

## **USE RESTRICTIONS**

- Do not apply this product using aerial application equipment.
- Do not apply more than one application per season in field corn.
- Do not apply this product if the soil pH is greater than 7.4.
- Do not mix, load or clean spray equipment within 50 feet of any wells or aquatic systems, including marshes, ponds, ditches, streams, lakes, etc.
- Do not apply within 50 feet of well-heads or the above mentioned aquatic systems.
- Do not apply more than 10.25 oz/A of **AMICARBAZONE WDG HERBICIDE** per year.
- Do not allow this chemical to drift onto other crops or non-target plants.
- Do not apply this product through any type of irrigation system.
- Do not use flood irrigation for activation or incorporation of this product.
- Use normal irrigation practices unless otherwise noted on this label for specific turfgrass species.

## **USE PRECAUTIONS FOR TURF**

- Do not apply **AMICARBAZONE WDG HERBICIDE** where annual bluegrass is maintained as a desirable turf.
- Use on turfgrass species other than those listed in the Cool-Season Turfgrasses and Warm-season Turfgrasses tables may result in unacceptable injury.
- Do not apply **AMICARBAZONE WDG HERBICIDE** to newly established (within six months) turfgrasses, unless otherwise directed on this label.
- Do not replant any crop, other than turfgrasses, in treated areas for a period of 12 months after the last application.
- Do not apply when turfgrasses are under stress. Maintain adequate moisture during the period between the 1<sup>st</sup> and last application.
- Do not apply to turf under moisture stress. If necessary irrigate before application to eliminate moisture stress.
- Allow at least 1 week between last application and overseeding with winter grasses.
- Apply to actively-growing weed populations.

## **CORN**

**AMICARBAZONE WDG HERBICIDE** is intended for use on field corn or corn grown for silage.

## **RESTRICTIONS AND PRECAUTIONS**

- Do not use on popcorn, sweet corn, high oil corn hybrids or corn grown for seed.
- For use on medium and fine textured soil types only.
- Do not use **AMICARBAZONE WDG HERBICIDE** on coarse-textured soils.
- Do not apply more than one application per season.
- Do not apply more than 10.25 oz/A (ounces per acre) of **AMICARBAZONE WDG HERBICIDE** per single application.

## **Planting depth**

Corn seed should be planted a minimum of 1-1/2 inches deep and must be completely covered with soil or reduced crop stand or injury may occur.

## APPLICATION

### Effect of variable soils on use rate

The proper use rate of **AMICARBAZONE WDG HERBICIDE** is affected by several soil factors, including soil texture, organic matter and soil pH. Soils which contain variations in one or more of these factors in a given area are termed variable soils and may be more likely to incur localized corn injury symptoms from an application of **AMICARBAZONE WDG HERBICIDE** especially in those localized areas containing a more coarse soil texture, a lower organic matter and/or a higher pH (alkaline/calcareous) soil than other areas of the same field. The user is responsible for selecting the rate of **AMICARBAZONE WDG HERBICIDE** that is appropriate for all soils in the area of application.

**Spray overlaps produce areas of overapplication which may increase the potential for crop damage.**

### Effect of adverse weather

Following an application of **AMICARBAZONE WDG HERBICIDE** extended periods of cool/cold, wet conditions (cool/cold daytime/nighttime temperatures, periods of high rainfall, etc.) during corn seed germination and/or early crop development period may result in temporary crop injury.

### In the event of crop failure

If the corn crop treated with **AMICARBAZONE WDG HERBICIDE** is lost, only corn may be replanted immediately. Do not apply more than 10.25 oz/A of **AMICARBAZONE WDG HERBICIDE** per year.

## MIXING INSTRUCTIONS

### LIQUID CARRIERS

**AMICARBAZONE WDG HERBICIDE** is a water dispersible granule herbicide that must be mixed in water or sprayable fluid fertilizer. **AMICARBAZONE WDG HERBICIDE** can be directly added to water, or to 28-0-0 or 32-0-0 liquid fertilizers. Compatibility of **AMICARBAZONE WDG HERBICIDE** with its labeled tank--mix products in other liquid carriers should always be predetermined prior to spraying. Refer to the **SPRAYABLE FLUID FERTILIZER COMPATIBILITY TEST** of this label to determine product compatibility in fluid carriers.

Before mixing **AMICARBAZONE WDG HERBICIDE** and its labeled tank--mixtures, examine the spray equipment, making sure it is completely free of rust and corrosion. Be sure the equipment is free of any residues from previously used pesticides. Flush the lines with clean water or recommended detergents after the last application. Use an approved method for disposing of rinsate.

The proper mixing sequence for **AMICARBAZONE WDG HERBICIDE** and recommended tank--mixtures with the appropriate liquid carrier is as follows:

1. Fill the spray--tank or nurse--tank 1/4 full with the appropriate liquid carrier.
2. Start the recirculation and agitation system and continue throughout mixing and application.
3. If the compatibility test indicates the need for a compatibility agent, add the recommended amount to the spray--tank.
4. If ammonium sulfate is to be used, add it now.
5. Add the recommended quantity of **AMICARBAZONE WDG HERBICIDE** to the spray--tank. Slowly add **AMICARBAZONE WDG HERBICIDE** if water or sprayable grade nitrogen fertilizers (28-0-0, 32-0-0) are the carriers; for other sprayable grade fertilizers first check compatibility and then either mix directly or preslurry first in water depending on the results of the compatibility test.
6. If tank--mixing with wettable powders, dry flowables, or other water dispersible granule products in water as the carrier, these may be added now. If tank--mixing these products in a sprayable grade fertilizer carrier, first preslurry these products with water and then slowly add them to the sprayable grade fertilizer carrier.
7. If tank--mixing with suspension concentrates, add the products to the spray--tank.
8. If tank--mixing with emulsifiable concentrates or soluble products, add the products to the spray--tank.
9. If tank--mixing with a glyphosate containing product, or other soluble concentrates, add the products to the spray--tank.
10. If mixing any additional spray adjuvants in the mixture, add them after all other products have been mixed.
11. Fill the spray--tank to the desired level with the appropriate liquid carrier.
12. Continue agitation during transport and application until the spray--tank is empty.

**AMICARBAZONE WDG HERBICIDE** and all registered mixtures should be kept agitated once mixed and then sprayed out immediately. Do not allow mixtures to stand for prolonged periods of time. Water quality, pH, temperature and/or other components of the mixture affect how long the mixture may stand before application.

### DRY FERTILIZER CARRIERS

Impregnate or coat **AMICARBAZONE WDG HERBICIDE** on dry bulk fertilizers before application.

## SPRAY DRIFT MANAGEMENT

Spray equipment and weather affect spray drift. Consider all factors when making application decisions. Where states or tribes have more stringent regulations, they must be observed. Avoiding spray drift is the responsibility of the applicator or grower. To reduce the potential for drift, the application equipment must be set to apply medium to coarse droplets (i.e., ASAE Standard 572) with corresponding spray pressure. Use high flow rate nozzles to apply the highest practical spray volume. With most nozzle types, narrow spray angles produce larger droplets. Follow the nozzle manufacturer's directions on pressure, orientation, spray volume, etc., in order to minimize drift and optimize coverage and control.

### Wind

Avoid making applications when spray particles may be carried by air currents to nontarget areas. Do not spray if wind is gusty, below 2 mph, or in excess of 10 mph and moving in the direction of adjacent sensitive areas. Local terrain may influence wind patterns; the applicator must be familiar with local conditions and understand how they may impact spray drift.

### Sensitive Areas

Sensitive areas to this product are defined as bodies of water (ponds, lakes, rivers, streams, and wetlands), known habitats of threatened or endangered species and non-labeled agricultural crop areas. Application must take all precautions necessary to keep spray drift from reaching sensitive areas.

### Temperature Inversions

A surface temperature inversion (i.e., increasing temperature with increasing altitude) greatly increases the potential for drift. Presence of ground fog is a good indicator of a surface temperature inversion. Do not apply during temperature inversions. Always make applications when there is some air movement to determine the direction and distance of possible spray drift.

### Equipment

All aerial and ground equipment must be properly maintained and calibrated using appropriate carriers or surrogates.

### Additional requirements for ground applications:

- Do not apply with a nozzle height greater than 4 feet above the crop canopy.

### Sprayer Cleanup

To avoid injury or exposure to non-target crops, thoroughly clean all mixing and spray equipment, including pumps, nozzles, lines and screens with a good quality tank cleaner, on an approved rinse pad or on a field site where an approved crop is grown.

### Ground Broadcast Treatment

Accurately calibrate the sprayer prior to mixing the herbicide treatments. Apply **AMICARBAZONE WDG HERBICIDE** and the labeled tank-mixtures in a minimum of 10 gal of total spray volume/A using broadcast boom equipment. Application must be made at a sufficient spray pressure and volume to provide accurate and uniform application of spray particles to a given area without causing spray drift to non-target areas. If mixed with other labeled herbicides, the spray volume may be no less than the minimum volume recommended by any tank-mix product used or 10 gal, whichever is greater. Use appropriately sized mesh screens and in-line strainers. Agitate thoroughly before and during application with either bypass or mechanical agitation. Rinse the sprayer thoroughly with clean water immediately after each use.

## APPLICATION METHODS AND TIMINGS

Apply **AMICARBAZONE WDG HERBICIDE** either alone or in recommended tank-mixtures in conventional, conservation or no-till crop management systems as a preplant surface, preplant incorporated, preemergence or post-emergence application. Do not apply when environmental conditions favor drift.

Early postemergence application may not be made if preemergence applications have been made in the spring.

For season long broad spectrum weed control **AMICARBAZONE WDG HERBICIDE** is recommended to be tank-mixed or used in sequence with a grass herbicide.

### Preplant Surface

Apply **AMICARBAZONE WDG HERBICIDE** alone or as a recommended tank-mixture as a broadcast-spray before planting corn. **AMICARBAZONE WDG HERBICIDE** applications made greater than 15 days prior to planting require an appropriate sequential herbicide application to maintain commercially acceptable weed control throughout the season. If possible, do not move treated soil out of the row or move untreated soil to the soil surface during planting, since weed control may be reduced.

### Preplant Incorporation

Apply **AMICARBAZONE WDG HERBICIDE** alone or in combination with recommended tank-mixes as a broadcast-spray and incorporate into the upper 1 to 2 inches of the soil. Avoid deep incorporation since reduced weed control and/or crop injury may result. Incorporate with implements which provide uniform, shallow incorporation (Example: finishing disk, harrow, rolling cultivator, field cultivator, etc.)

### Preemergence

Apply **AMICARBAZONE WDG HERBICIDE** alone or in recommended tank-mixes to the soil surface during planting (behind the planter after furrow closure) or after planting of the crop but prior to weed or crop emergence. Ensure that the seed furrow is closed prior to herbicide application or crop injury may result. Rainfall and/or overhead sprinkler irrigation is necessary to move **AMICARBAZONE WDG HERBICIDE** into the upper soil surface where weed seeds germinate. Dry weather conditions following application may reduce weed control. If adequate moisture is not received within 7 to 10 days after application and weeds begin to emerge from the soil, a light rotary hoeing or shallow incorporation (no deeper than 1/2 inch deep) will improve performance. Excessive rainfall or irrigation after application may reduce weed control and / or increase crop damage.

### Early Postemergence

Tank-mix **AMICARBAZONE WDG HERBICIDE** with various recommended herbicides to enhance control of broadleaf weeds when applied early postemergence. Apply **AMICARBAZONE WDG HERBICIDE** after emergence through the 10-leaf collar stage (V10). Consult the tank-mix partner, label for weeds controlled and maximum weed sizes at applications. Consult the tank-mix partner, label for the appropriate crop stage and size at application; make the application within the most restrictive labeled timing between **AMICARBAZONE WDG HERBICIDE** and any selected tank-mix partner. (See **Tank-Mix and Sequential Herbicide Combinations** section of this label.)

Use of an adjuvant is recommended only when the tank-mixing partner requires its inclusion. When an adjuvant is to be used with this product, ~~UPL NA Inc. Arysta LifeScience North America, LLC~~ recommends the use of a Chemical Producers and Distributors Association (CPDA) certified adjuvant. Do not use crop oil concentrate (COC), methylated seed oils (MSO), or any adjuvant containing vegetable or petroleum oils with **AMICARBAZONE WDG HERBICIDE** post-emergence or crop injury may occur. The maximum seasonal rate for early post-emergence treatment is 0.25 lb ai/A.

### Fall Application (for use only in IA, MN, ND, SD, WI, north of Route 20 in NE, north of Route 136 in IL, and north of Interstate 70 in OH)

Following harvest of crops in the fall, **AMICARBAZONE WDG HERBICIDE** may be soil applied into crop stubble after October 15, when the sustained soil temperature at the four-inch soil depth is less than 50° F, but before the ground is frozen. Apply at 5.0 to 10.25 oz/A. This application is limited to only medium- and fine-textured soils and corn planted the following spring. Till the soil before or after application with incorporation depth of no more than two inches following herbicide application. If a spring application of **AMICARBAZONE WDG HERBICIDE** follows the fall application, the total **AMICARBAZONE WDG HERBICIDE** rate for both applications must not exceed 10.25 oz/A.

### Winter Weed Control (for use in KS, OK, TX)

For control of winter weeds only. Following harvest of any previous crops in the fall, apply **AMICARBAZONE WDG HERBICIDE** into crop stubble soil. Apply at 5.0 to 10.25 oz/A. Apply the maximum rate alone or in an approved tank-mix combination labeled for similar use. Apply the lower rates in an approved tank-mix combination only. Make applications from November up to within 30 days of planting corn the following spring. If weeds are emerged at the time of application, refer to the following **Burndown** section of this label for instructions on appropriate adjuvants and tank-mix combinations for control of emerged weeds.

Use normal weed control programs in the following corn crop. Till the soil before or after application with incorporation depth of no more than two inches following herbicide application. If a spring application of **AMICARBAZONE WDG HERBICIDE** follows the fall application, the total **AMICARBAZONE WDG HERBICIDE** rate for both applications must not exceed 10.25 oz/A.

**RESTRICTION:** Do not plant any crop other than corn or illegal residues may result.

### Preplant / Preemergence Burndown

If weeds are present at the time of treatment, a tank-mixture of **AMICARBAZONE WDG HERBICIDE** with crop oil concentrate or methylated seed oil is recommended for burndown control of labeled weeds less than 3 inches in height or diameter. If weeds are greater than 3 inches in height or diameter, or there are weeds present that are not controlled by **AMICARBAZONE WDG HERBICIDE**, the addition of a nonselective herbicide such as Roundup®, Gramoxone® Extra, Touchdown® or other glyphosate-containing product is recommended. For additional broadleaf weed control of giant ragweed or other difficult-to-control species, add a recommended formulation of 2,4-D and/or atrazine. Observe directions for use, precautions and restrictions on the labels of all products selected for a burndown tank-mixture. Burndown tank-mixtures containing atrazine will result in the burndown of labeled broadleaf weeds less than 6 inches in height.

## WEEDS CONTROLLED

**AMICARBAZONE WDG HERBICIDE** applied at full dosages and recommended application timings will control many annual broadleaf weeds, including ALS resistant weed populations.

WEEDS CONTROLLED		
ANNUAL BROADLEAF WEEDS		
Dandelion seedling Morningglory, spp. <sup>2</sup> Pepperweed, Virginia Purslane, common Smartweed, Penn. Velvetleaf	Jimsonweed Mustard, wild Pigweed, redroot <sup>1</sup> Ragweed, common Speedwell, spp. Waterhemp, tall <sup>1</sup>	Lambsquarters, spp. <sup>1</sup> Pennycress, field Pigweed, spp. <sup>1</sup> Shepherdspurse Sunflower, wild Waterhemp, common <sup>1</sup>
<sup>1</sup> Certain biotypes may have developed resistance to photosynthesis inhibiting herbicides (ex. Triazines). If weed resistance is known or suspected use in combination or in sequence with a registered non-photosynthesis inhibiting herbicide. <sup>2</sup> Due to extended periods of germination and/or dry weather conditions, control of these weeds may be erratic and may require cultivation or an appropriate postemergence herbicide application for control of late season escapes.		

## WEEDS PARTIALLY CONTROLLED

**AMICARBAZONE WDG HERBICIDE** applied at recommended dosages and application timings, especially the higher rates and timings closer to planting, will provide partial control (suppression) of many difficult to control annual grass and broadleaf weeds.

WEEDS PARTIALLY CONTROLLED <sup>3</sup>		
ANNUAL GRASS WEEDS		
Barnyardgrass Foxtail spp.	Cheat Lovegrass, India	Crabgrass spp. Panicum, fall
ANNUAL BROADLEAF WEEDS		
Cocklebur, common <sup>2</sup>	Hemp sesbania	Henbit
Horsenettle Ragweed, giant <sup>2</sup>	Kochia <sup>1</sup> Prickly sida	Nightshade, eastern black
<sup>1</sup> Certain biotypes may have developed resistance to photosynthesis inhibiting herbicides (ex. triazines). If weed resistance is known or suspected, use in combination or in sequence with a registered non-photosynthesis inhibiting herbicide. <sup>2</sup> Due to extended periods of germination and/or dry weather conditions control of these weeds may be erratic and may require cultivation or an appropriate postemergence herbicide application for control of late season escapes. <sup>3</sup> These weeds will be suppressed or be reduced in competition. Reduced competition weeds will be stunted in growth and/or be of reduced populations as compared to non-treated areas. Commercially acceptable control may require the application of an appropriate preemergence tank mixture or sequential postemergence herbicide treatment.		

## RATE SELECTION/SOIL TEXTURE

The recommended rates of **AMICARBAZONE WDG HERBICIDE** are defined by texture and organic matter content of the soil being treated. Unless a specific soil texture is mentioned, rate tables throughout this label refer to the following three soil texture groups: coarse, medium and fine. If you are not sure how to classify your soil, contact your [UPL NA Inc. Arysta LifeScience North America, LLC](#) representative, the cooperative extension service or other knowledgeable person. The following chart includes a complete listing of soil textures included in each of the soil textures grouping:

COARSE	MEDIUM	FINE
Sand Loamy sand Sandy loam	Loam Silt loam Silt Sandy clay loam Sandy clay	Silty clay loam Silty clay Clay loam Clay

## USE RATES

Apply **AMICARBAZONE WDG HERBICIDE** alone, in tank-mixture with, or sequentially with additional registered herbicides to provide control of certain annual broadleaf weeds. Application rates vary according to application timing and soil characteristics. Choose the correct rate of **AMICARBAZONE WDG HERBICIDE** according to your cropping management and soil characteristics.

Use rate specifications for **AMICARBAZONE WDG HERBICIDE** are shown in tables titled: **Soil Applied Conventional Tillage and PostEmergence. Soil Applied Conventional Tillage** tables describe **AMICARBAZONE WDG HERBICIDE** soil-applied use rates for the Eastern Corn Belt and Western Corn Belt, respectively. The Postemergence table contains use rate information for **AMICARBAZONE WDG HERBICIDE** applied postemergence.

**AMICARBAZONE WDG HERBICIDE** is intended for use only on medium and fine textured soils.

**RESTRICTION: – DO NOT USE AMICARBAZONE WDG HERBICIDE ON COARSE-TEXTURED SOILS.**

**Do not use AMICARBAZONE WDG HERBICIDE when soil pH is greater than 7.4.**

**Soil-Applied Eastern Corn Belt Use Rates (states of MN, MO, AR, LA, and IA east of US Hwy 71, and locations east) on medium and fine textured soils:**

Soil applied Conventional tillage / Conservation tillage / No-till		
Application Timing	Soil Organic Matter (%)	
	<2	>2
<b>Early Preplant</b> (30 or more days before planting)	10.25 oz/A	
<b>Preplant</b> (surface or incorporated, less than 30 days before planting)	5.0 to 7.5 oz/A	5.0 to 10.25 oz/A
<b>Preemergence</b> (surface, from planting to prior to emergence)		
Use the <u>higher</u> rate of <b>AMICARBAZONE WDG HERBICIDE</b> within the applicable rate range when applying at or prior to planting for full season broadleaf weed control. Use the <u>lower</u> rate of <b>AMICARBAZONE WDG HERBICIDE</b> within the applicable rate range when applying in combination with full rates of additional broadleaf herbicides, or when planning a sequential application of a broad spectrum herbicide. <b>AMICARBAZONE WDG HERBICIDE</b> applications made greater than 15 to 30 days prior to planting may require an appropriate sequential herbicide application to maintain commercially acceptable weed control throughout the season.		

**Soil-Applied Western Corn Belt Use Rates (states of ND, SD, NE, KS, OK, TX, and IA west of US Hwy 71, and points west) on medium and fine textured soils:**

Soil applied Conventional tillage/Conservation tillage/No-till	
Application Timing	Rate oz/A
Prior to a planned sequential soil applied or postemergence application, or in tank-mixture with full rates of a broad spectrum herbicide treatment:	
<b>Early Preplant</b> (surface or incorporated, 30 or more days before planting)	5.0 to 10.25
<b>Preplant</b> (surface or incorporated, less than 30 days before planting)	5.0
<b>Pre-emergence</b> (surface from planting to prior to emergence)	

**POST-EMERGENCE BROADCAST APPLICATION**

**Ground Application**

Apply broadcast applications with ground equipment only. For optimum weed control, apply when weeds are small and actively growing. Consult the tank-mix partner label for weeds controlled and maximum weed sizes at application. Consult the tank-mix partner label for the appropriate crop stage and size at application; make the application within the most restrictive labeled timing between **AMICARBAZONE WDG HERBICIDE** and any selected tank-mix partner (see Tank-Mix and Sequential Herbicide Combinations section of this label).

Adjust nozzle height above crop and weed canopy to ensure uniform spray coverage. Increase carrier volume with increasing weed size and population density. For further restrictions, precautions and additional instructions and recommendations, consult the tank-mix partner label.

**APPLICATION**

Tank-mix **AMICARBAZONE WDG HERBICIDE** with various recommended herbicides to enhance control of broadleaf weeds when applied post directed to field corn. Apply **AMICARBAZONE WDG HERBICIDE** through the 10-leaf collar stage (V10). Use drop nozzles and appropriate spacing to direct spray below the corn whorl and upper leaves. The top of the target weed canopy must be sufficiently below the whorl and upper leaves of the crop to permit adequate spray coverage. The height differential required between the crop and weed canopy will depend on the specific equipment used. Consult the tank-mix partner label for weeds controlled and maximum weed sizes at application. Consult the tank-mix partner label

for the appropriate crop stage and size at application. Make the application within the most restrictive labeled timing between **AMICARBAZONE WDG HERBICIDE** and any selected tank-mix partner (see Tank-Mix and Sequential Herbicide Combinations section of this label).

POSTEMERGENCE	
<b>Application Timing</b> Use in combination with other broadleaf and/or grass and broadleaf post emergence herbicides at rates of the tank-mix partners recommended on their respective labels. <sup>1</sup>	<b>Rate oz/A</b>
<b>Postemergence</b> (apply to corn from emergence through the 10 leaf collar stage [V10])	2.25 – 3.5
<sup>1</sup> Use of an adjuvant is recommended only when the tank-mixing partner requires its inclusion. Do not use crop oil concentrate (COC), methylated seed oils (MSO), or any adjuvant containing vegetable or petroleum oils with <b>AMICARBAZONE WDG HERBICIDE</b> post emergence. When an adjuvant is to be used with this product, <del>UPL NA Inc. Arysta LifeScience North America, LLC</del> recommends the use of a Chemical Producers and Distributors Association (CPDA) certified adjuvant.	

**Precautions and Restrictions**

1. Do not make postemergence applications using sprayable grade fluid fertilizers as the carrier because severe crop injury may occur.
2. Do not apply when corn is under stress (see **Stress** statement section).

**Stress** is any condition or combination of conditions, which impairs normal crop growth. Weather, disease, insect damage, fertility or other factors may cause stress. Applications made before or after the crop is under stress from these factors or from periods of prolonged cool, wet and cloudy weather, or widely fluctuating day and nighttime temperatures may result in temporary leaf burn, yellowing and/or stunting of the crop. Recovery from damage is generally rapid with no lasting effects on new growth. Under extreme stress, stand reductions may occur.

Refer to the individual product labels for additional information concerning use rates, precautions and/or restrictions. Always follow the most restrictive label use directions.

**TANK-MIX AND SEQUENTIAL HERBICIDE COMBINATIONS**

Apply **AMICARBAZONE WDG HERBICIDE** as a tank-mix or in sequence with additional herbicides to provide improved spectrum of weed control. Control of grassy weeds and additional control of certain hard-to-control broadleaf weeds such as morning glories, cocklebur and giant ragweed is provided with various tank-mixtures, applied in either conventional, conservation or no-till crop management systems. Apply tank-mix partners with similar timings and methods as **AMICARBAZONE WDG HERBICIDE** alone unless specifically prohibited in the tank-mix partner's product label, or otherwise indicated on the **Herbicide Recommended For Tank-Mixture** table. Three-way or multiple tank-mixtures are permitted unless restricted by any tank-mix partner's label. Refer to the individual product labels for recommended use rates (unless mentioned specifically on this label), precautions and restrictions. Do not tank-mix **AMICARBAZONE WDG HERBICIDE** with metribuzin.

Refer to the individual product labels for additional information concerning use rates, precautions and/or restrictions. Always follow the most restrictive label use directions.

HERBICIDES RECOMMENDED FOR TANK MIXTURE AND/OR FOR SEQUENTIAL APPLICATION WITH AMICARBAZONE WDG HERBICIDE INCLUDE:		
Atrazine products	Banvel®	Bicep II
Clarity®	Dual II Magnum®	Magnum®
Frontier®	Fultime	Glyphosate
Gramoxone Extra	Guardman	Harness®
Harness Xtra®	Lasso®	Marksman®
Prowl®	Roundup®	TopNotch®
Touchdown®	2,4-D products	
HERBICIDES RECOMMENDED FOR POST-EMERGENCE USE ONLY		
Accent®		
HERBICIDES RECOMMENDED FOR PREPLANT APPLICATIONS ONLY. USE SEQUENTIALLY WITH AMICARBAZONE WDG HERBICIDE, SEPARATING APPLICATIONS BY AT LEAST 30 DAYS. DO NOT <del>TANKMIX</del> TANK-MIX WITH AMICARBAZONE WDG HERBICIDE.		
Balance®		

**HERBICIDES RECOMMENDED FOR POST-EMERGENCE APPLICATIONS. HOWEVER, TEMPORARY CROP DAMAGE, AS A CONTACT TISSUE BURN, MAY OCCUR.**

~~TANKMIX~~~~TANK-MIX~~

Bromoxynil products

**CROP ROTATION RESTRICTIONS**

In the event of a crop failure, only corn can be replanted immediately. Do not apply more than 10.25 oz/A per year of **AMICARBAZONE WDG HERBICIDE**.

Waiting periods after **AMICARBAZONE WDG HERBICIDE** application before the following crops can be planted:

Interval	Crops
0 Days	Corn
1 <del>Months</del> Month	Soybeans
	Bulb Vegetables
	Root and Tuber Vegetables
12 Months	Cotton

**RESTRICTION:** Do not rotate to crops other than field corn and crops listed above with specified plant-back intervals.

**TURF**

**Recommended Turfgrass Sites**

**AMICARBAZONE WDG HERBICIDE** may be applied to tolerant turf species on golf courses, seed and sod production fields, residential sites (including home lawns), schools, playgrounds, parks, recreational areas, sports fields, common areas and grass roadsides maintained as a lawn. Do not apply **AMICARBAZONE WDG HERBICIDE** where annual bluegrass is maintained as a desirable turf.

**Turfgrass Tolerance**

Do not apply to turfgrasses established less than six months unless otherwise directed on this label. Cool season turfgrasses established in the fall months can be treated the following spring. The use of **AMICARBAZONE WDG HERBICIDE** on turf that is not well-established, or that has been weakened by weather, pests, diseases, chemicals, mechanical injury or other related stress factors may result in adverse turf injury.

This product should only be applied to sites that are composed of the following turfgrass species unless trial use has indicated that the turf species not listed here is tolerant to **AMICARBAZONE WDG HERBICIDE**.

<b>Cool-Season Turfgrasses<sup>1</sup></b>	
<b>Bentgrass, Creeping</b>	<i>Agrostis stolonifera</i>
<b>Bluegrass, Kentucky</b>	<i>Poa pratensis</i>
<b>Fescue, Fine</b>	<i>Festuca spp.</i>
<b>Fescue, Tall</b>	<i>Festuca arundinacea</i>
<b>Ryegrass, Perennial</b>	<i>Lolium perenne</i>
<b>Warm-Season Turfgrasses<sup>1</sup></b>	
<b>Bahiagrass</b>	<i>Paspalum notatum</i>
<b>Bermudagrass</b>	<i>Cynodon dactylon</i>
<b>Buffalograss</b>	<i>Buchloe dactyloides</i>
<b>Centipedegrass</b>	<i>Eremochloa ophiuroides</i>
<b>Kikuyugrass</b>	<i>Pennisetum clandestinum</i>
<b>Seashore Paspalum</b>	<i>Paspalum vaginatum</i>
<b>St. Augustinegrass</b>	<i>Stenotaphrum secundatum</i>
<b>Zoysiagrass</b>	<i>Zoysia japonica</i>

<sup>1</sup>Cool- and warm-season turfgrasses have demonstrated acceptable tolerance to **AMICARBAZONE WDG HERBICIDE**. However, not all cultivars have been evaluated.

When applied as directed under the conditions described, established turfgrasses are tolerant to this product. Temporary yellowing of the turf may occur after application. This effect is temporary and the turf will recover in 14 to 21 days.

APPLICATIONS TO COOL-SEASON TURFGRASSES WHEN THE DAILY HIGH AIR TEMPERATURE EXCEEDS 85° F MAY RESULT UNACCEPTABLE INJURY.

DO NOT APPLY **AMICARBAZONE WDG HERBICIDE** TO CREEPING BENTGRASS WHEN THE DAILY HIGH AIR TEMPERATURE IS EXPECTED TO EXCEED 80° F. APPLICATIONS TO WARM-SEASON TURFGRASSES WHEN THE

DAILY HIGH AIR TEMPERATURE EXCEEDS 90° F MAY RESULT IN UNACCEPTABLE INJURY ESPECIALLY TO ST. AUGUSTINEGRASS.

#### RESTRICTIONS:

- Apply **AMICARBAZONE WDG HERBICIDE** only with ground equipment.
- Do not apply this product using aerial application equipment.
- Do not apply this product through any type of irrigation system.

**AMICARBAZONE WDG HERBICIDE** may be applied postemergence to tolerant turfgrasses at rates of 1.0 to 10.0 oz/A. See additional information for specific turfgrass species in section titled **Timing and Rates of Application**.

#### Mixing Instructions

**AMICARBAZONE WDG HERBICIDE** is a water--dispersible granule formulation that must be mixed in water.

The proper mixing sequence for **AMICARBAZONE WDG HERBICIDE** and recommended tank--mixtures with the appropriate liquid carrier is as follows:

1. Fill the spray--tank or nurse--tank 1/4 full with the appropriate liquid carrier or water.
2. Start the recirculation and agitation system and continue throughout mixing and application.
3. If the compatibility test indicates the need for a compatibility agent, add the recommended amount to the spray--tank.
4. Add the recommended quantity of **AMICARBAZONE WDG HERBICIDE** to the spray--tank.
5. If tank--mixing with wettable powders, dry flowables or water dispersible granule products in water as the carrier, these may be added now.
6. If tank--mixing with suspension concentrates, add the products to the spray--tank.
7. If tank--mixing with emulsifiable concentrates or soluble products, add the products to the spray--tank.
8. **AMICARBAZONE WDG HERBICIDE** and all registered mixtures should be kept agitated once mixed and then sprayed out.
9. Do not allow mixtures to stand for prolonged periods of time.

#### Compatibility

**AMICARBAZONE WDG HERBICIDE** can be tank-mixed with other herbicides, pesticides and liquid fertilizers not shown on this label, compatibility needs to be determined before mixing. A compatibility test can be conducted with the following method:

1. In a small container (jar with lid), add 0.5 to 1.0 qt of the spray carrier.
2. Add all ingredients of the tank--mix in the same ratio as the anticipated use into spray--carrier.
3. Vigorously shake the mixture and allow to stand for 5 to 10 minutes.
4. Rapid precipitation, settling, changes in color, etc. and/or failure to resuspend indicates that the mixture is physically incompatible and should not be applied.
5. If the mixture is physically compatible, the tank--mix should be tested to determine safety (no adverse turfgrass injury) before treating large areas. Observe treated areas for 2 to 3 weeks after application. If injury is not considered adverse, then the remaining turf area may be treated.

#### Sprayer Equipment Clean-out

After applying **AMICARBAZONE WDG HERBICIDE** the sprayer must be thoroughly cleaned with the following procedure:

1. Drain the tank completely, then wash out tank, boom and hoses with clean water.
2. Drain the tank again.
3. Fill the tank half-full with water and add ammonia at a dilution rate of 1.0% v/v (i.e. one gallon household ammonia per 100 gal of rinsate). Completely fill tank with water. Operate the sprayer for 10 minutes to flush hoses, boom and nozzles.
4. Drain the sprayer system. Rinse the tank with clean water and flush the hoses, boom and nozzles. Remove and clean spray tips and screens separately.
5. Properly dispose of all cleaning solution and rinsate in accordance with Federal, State and local guidelines.

Do not drain or flush sprayer on or near desirable plants. Do not contaminate any body of water.

#### SPRAY APPLICATION

##### Broadcast Treatment

Accurately calibrate the sprayer prior to mixing the herbicide treatments. Apply **AMICARBAZONE WDG HERBICIDE** and the labeled tank--mix partners in a minimum of 20 gal of total spray volume/A using broadcast boom equipment. Power sprayers equipped with a spray wand/gun may also be used for broadcast or spot application. Application must be made at a sufficient spray pressure and volume to provide accurate and uniform application of spray particles to a given area without causing spray drift to non-target areas. If mixed with other labeled herbicides, the spray volume may be no less than the minimum volume recommended by any tank--mix product used or 20 gal, whichever is greater. Use appropriately sized mesh screens and in-line strainers. Agitate thoroughly before and during application with either bypass or mechanical agitation. Rinse the sprayer thoroughly with clean water immediately after each use.

Improper spray pattern overlaps produce areas of over-application and may increase the potential for turf damage.

## Spot Treatment

Backpack and compression sprayers may be used for small turfgrass areas and spot treatments. Wands fitted with a flat fan nozzle tip should be held stationary at the proper height during application. A side-to-side or swinging arm motion may result in uneven spray coverage.

## APPLICATION METHODS AND TIMINGS

Apply **AMICARBAZONE WDG HERBICIDE** postemergence to actively-growing broadleaf and grass weeds. Do not apply when environmental conditions favoring drift.

**AMICARBAZONE WDG HERBICIDE** may be tank-mixed with herbicides registered for use on turfgrass sites. See tank-mix instructions listed under specific turfgrass species for more information.

## WEEDS CONTROLLED or SUPPRESSED

Depending on the use rate, **AMICARBAZONE WDG HERBICIDE** will control or suppress the following broadleaf and grass weeds in turf.

WEEDS CONTROLLED or SUPPRESSED by AMICARBAZONE WDG HERBICIDE	
Alexandergrass	Morningglory spp.
Betony, Florida (suppression)	Mustard, wild
Bittercress, hairy	Nightshade, eastern black (suppression)
Blue-eyed grass spp. (suppression)[*]	Panicum, fall
Bluegrass, annual (annual and perennial biotypes)	Parsley-piert
Bluegrass, roughstalk ( <i>Poa trivialis</i> )	Pennycress, field
Burweed, lawn (spurweed)	Pepperweed, Virginia
Carpetweed	Pigweed spp.
Cheat (suppression)	Prickly sida (suppression)
Chickweed, common	Purslane, common
Chickweed, sticky	Radish, wild
Clover, hop (suppression)	Ragweed, common
Cocklebur, common (suppression)	Ragweed, giant (suppression)
Crabgrass spp. (suppression) (does not control India crabgrass ( <i>Digitaria longiflora</i> ))	Shepherd'spurse
Creeping beggarweed (suppression)	Sida, prickly (suppression)
Cudweed sp.	Smartweed, Pennsylvania
Diamond-flower, old world (suppression)	Speedwell sp.
Foxtail sp. (suppression)	Spurge, spotted
Dichondra[*]	Tansy Mustard, pinnate[*]
Drymary, Heartleaf[*]	Toadflax, oldfield
Hemp sesbania (suppression)	Velvetleaf
Henbit	Waterhemp, tall
Horsenettle (suppression)	Waterhemp, common
Jimsonweed	Whitehead broom (suppression)
Kochia (suppression)	Woodsorrel, yellow[*]
Lambsquarters, common	
Lovegrass, India (suppression)	

[\*Not approved for use in California.]

## Cool-Season Turfgrasses

**Annual bluegrass weed control in established creeping bentgrass, Kentucky bluegrass, fine fescues, tall fescue and perennial ryegrass.**

### Creeping Bentgrass-Putting Greens

Creeping bentgrass ('A1', 'A4', 'G6', 'L93', 'Crenshaw' and 'Penncross') maintained at putting green clipping heights has demonstrated acceptable tolerance to **AMICARBAZONE WDG HERBICIDE**. Other creeping bentgrass cultivars may be tolerant; however, the end user is advised to do a tolerance test on a small area before spraying all the intended turfgrass areas.

For annual bluegrass control, apply **AMICARBAZONE WDG HERBICIDE** in the spring months, beginning approximately two weeks after the resumption of active bentgrass growth, at 1.0 oz **AMICARBAZONE WDG HERBICIDE**/A. Repeat the application at 7 to 14 day intervals for a maximum of up to 4 applications. Repeat applications should be made in a perpendicular direction to the previous application.

- Apply **AMICARBAZONE WDG HERBICIDE** at air temperatures ranging from 55 to 80° F.

- Do not apply **AMICARBAZONE WDG HERBICIDE** to creeping bentgrass greens when the daytime air temperature is expected to exceed 80° F, 14 days before or after application.
- Do not apply **AMICARBAZONE WDG HERBICIDE** to creeping bentgrass greens in the summer or early fall months.
- Do not apply **AMICARBAZONE WDG HERBICIDE** to creeping bentgrass greens exhibiting stress from adverse weather, pests, diseases, chemicals, mechanical injury or other related stress factors.
- Do not apply to bentgrass under moisture stress. If necessary, irrigate before application to eliminate moisture stress.
- To minimize bentgrass injury, irrigate with 0.1 to 0.2 inches water within 3 to 4 hours after application.
- Do not apply **AMICARBAZONE WDG HERBICIDE** to creeping bentgrass that has received an application of products that contain mefluidide within the previous 3 months.

Improper spray pattern overlaps produce areas of over-application and may increase the potential for turf damage. Additionally, all potential tank-mixtures with fungicides, insecticides and other herbicides have not been evaluated and are not recommended by [UPL NA Inc. Arysta LifeScience North America, LLC](#) for use on putting greens.

**AMICARBAZONE WDG HERBICIDE** is effective in controlling *Poa annua* and is recommended only for creeping bentgrass with 10% or less population density of *Poa annua*. Applications to creeping bentgrass greens with high populations (> 10%) of *Poa annua* can result in a decrease of overall turf quality due to the elimination of *Poa annua*.

Results from controlling *Poa annua* infestations may be mistaken as temporary injury to creeping bentgrass or by thinning of the turf. Creeping bentgrass will gradually fill in the resultant bare areas. The implementation of cultural practices to hasten the growth of creeping bentgrass will aid in the healing process. Treated areas may be reseeded at 7 or more days after the last application of **AMICARBAZONE WDG HERBICIDE**.

#### **Creeping Bentgrass-Tees, Greens Surrounds and Collars only**

Creeping bentgrass ('A1', 'A4', 'G6', 'L93', 'Pennway', 'Penncross', and 'Seaside') maintained at tee clipping heights has demonstrated acceptable tolerance to **AMICARBAZONE WDG HERBICIDE**. Other creeping bentgrass cultivars may be tolerant; however, the end user is advised to do a tolerance test on a small area before spraying all the intended turfgrass areas.

For annual bluegrass control, apply **AMICARBAZONE WDG HERBICIDE** in the spring months, approximately two weeks after the resumption of active bentgrass growth, at 1.0 oz. **AMICARBAZONE WDG HERBICIDE/A**. Repeat the application at 7 to 14 day intervals for a maximum of up to 4 applications. Repeat applications should be made in an alternate direction to the previous application.

- Apply **AMICARBAZONE WDG HERBICIDE** at air temperatures ranging from 55 to 80° F.
- Do not apply **AMICARBAZONE WDG HERBICIDE** to creeping bentgrass tees when the daytime air temperature is expected to exceed 80° F, 14 days before or after application.
- Do not apply **AMICARBAZONE WDG HERBICIDE** to creeping bentgrass tees in the summer or early fall months.
- Do not apply **AMICARBAZONE WDG HERBICIDE** to creeping bentgrass tees exhibiting stress from adverse weather, pests, diseases, chemicals, mechanical injury or other related stress factors.
- Do not apply to bentgrass under moisture stress. If necessary, irrigate before application to eliminate moisture stress.
- To minimize bentgrass injury, irrigate with 0.1 to 0.2 inches water within 3 to 4 hours after application.
- Do not apply **AMICARBAZONE WDG HERBICIDE** to creeping bentgrass that has received an application of products that contain mefluidide within the previous 3 months.

Improper spray pattern overlaps produce areas of over-application and may increase the potential for turf damage. Additionally, all potential tank-mixtures with fungicides, insecticides, other herbicides have not been evaluated and should be tested on a small scale basis before widespread use.

**AMICARBAZONE WDG HERBICIDE IS EFFECTIVE IN CONTROLLING POA ANNUA AND IS RECOMMENDED ONLY FOR CREEPING BENTGRASS WITH A 10% OR LESS POPULATION DENSITY OF POA ANNUA.** Applications to creeping bentgrass with high populations (>10%) of *Poa annua* can result in a decrease of overall turf quality due to the rapid elimination of *Poa annua*.

Results from controlling *Poa annua* infestations may be mistaken as temporary injury to creeping bentgrass or by thinning of the turf. Creeping bentgrass will gradually fill in the resultant bare areas. The implementation of cultural practices to hasten the growth of creeping bentgrass will aid in the healing process. Treated areas may be reseeded at 7 or more days after the last application of **AMICARBAZONE WDG HERBICIDE**.

#### **Creeping Bentgrass- Fairways and Roughs only**

Creeping bentgrass ('A1', 'A4', 'G6', 'L93', 'Pennway', 'Penncross' and 'Seaside') has demonstrated acceptable tolerance to **AMICARBAZONE WDG HERBICIDE**. Other creeping bentgrass cultivars may be tolerant; however, the end user is advised to do a tolerance test on a small area before spraying all the intended turfgrass areas.

For annual bluegrass control, apply **AMICARBAZONE WDG HERBICIDE** in the spring months, beginning approximately two weeks after the resumption of active bentgrass growth, at 1.0 oz. **AMICARBAZONE WDG HERBICIDE/A**. Repeat the application at 7 to 14 day intervals for a maximum of up to 4 applications. Repeat applications should be made in an alternate direction to the previous application. Improper spray pattern overlaps produce areas of over-application and may increase the potential for turf damage. Additionally, all potential tank-mixtures with fungicides, insecticides, and other herbicides should be tested on a small scale basis before widespread use.

Alternatively, apply **AMICARBAZONE WDG HERBICIDE** in the spring months approximately two weeks after the resumption of active bentgrass growth, at 2.0 oz **AMICARBAZONE WDG HERBICIDE/A** for annual bluegrass control. Repeat the applications at 14 to 21 day intervals for a maximum of up to 2 applications.

- Apply amicarbazone at air temperatures ranging from 55 to 80° F.
- Do not apply **AMICARBAZONE WDG HERBICIDE** to creeping bentgrass fairways when the daytime air temperature is expected to exceed 80° F, or for 14 days before or after application.
- Do not apply **AMICARBAZONE WDG HERBICIDE** to creeping bentgrass in the summer or early fall months.
- Do not apply **AMICARBAZONE WDG HERBICIDE** to creeping bentgrass exhibiting stress from adverse weather, pests, diseases, chemicals, mechanical injury or other related stress factors.
- **AMICARBAZONE WDG HERBICIDE IS EFFECTIVE IN CONTROLLING POA ANNUA AND IS RECOMMENDED ONLY FOR CREEPING BENTGRASS WITH A 10% OR LESS POPULATION/DENSITY OF POA ANNUA.** Applications to creeping bentgrass with high populations (>10%) of *Poa annua* can result in a decrease of overall turf quality due to the rapid elimination of *Poa annua*.
- **RESULTS FROM CONTROLLING POA ANNUA INFESTATIONS MAY BE MISTAKEN AS TEMPORARY INJURY TO CREEPING BENTGRASS OR BY THINNING OF THE TURF.** Creeping bentgrass will gradually fill in the resultant bare areas. Treated areas may be reseeded at 7 or more days after the last application of **AMICARBAZONE WDG HERBICIDE**.
- Do not apply **AMICARBAZONE WDG HERBICIDE** to creeping bentgrass under moisture stress. If necessary, irrigate before application to eliminate moisture stress.
- To minimize bentgrass injury, irrigate with 0.1 to 0.2 inches water within 3 to 4 hours after application.
- Do not apply **AMICARBAZONE WDG HERBICIDE** to creeping bentgrass that has received an application of products that contain mefluidide within the previous 3 months

**AMICARBAZONE WDG HERBICIDE** may be tank-mixed with labeled herbicides such as 2,4-D, MCP, dicamba or two and three-way herbicides that contain mixtures of 2,4-D, MCP, clopyralid, dicamba, fluroxypyr, or triclopyr to enhance control of emerged broadleaf weeds.

**AMICARBAZONE WDG HERBICIDE** may also be tank-mixed with preemergence herbicides for residual control of crabgrass species and other summer annual weeds.

#### **Fine Fescues, and Tall Fescue, Perennial Ryegrass**

For annual bluegrass control, **AMICARBAZONE WDG HERBICIDE** may be applied twice at 2.0 to 4.0 oz **AMICARBAZONE WDG HERBICIDE/A** at 14 to 21 day intervals.

**AMICARBAZONE WDG HERBICIDE** should not be applied to these cool-season turfgrasses when the daytime air temperature is expected to exceed 85° F, or immediately before or after periods of high air temperatures. Application of **AMICARBAZONE WDG HERBICIDE** to cool season turfgrasses exhibiting stress from adverse weather, pests, diseases, chemicals, mechanical injury or other related stress factors may increase the potential for unacceptable injury.

Perennial ryegrass and tall fescue may be seeded at 7 or more days after the last application of **AMICARBAZONE WDG HERBICIDE**.

**AMICARBAZONE WDG HERBICIDE** may be tank-mixed with various recommended herbicides such as 2,4-D, MCP, dicamba or two and three-way herbicides that contain mixtures of 2,4-D, MCP, clopyralid, dicamba, fluroxypyr, or triclopyr to enhance control of emerged broadleaf weeds.

**AMICARBAZONE WDG HERBICIDE** may also be tank-mixed with preemergence herbicides for residual control of crabgrass species and other summer annual weeds.

- Do not apply **AMICARBAZONE WDG HERBICIDE** to perennial ryegrass, tall fescue, or fine fescue that has received an application of products that contain mefluidide within the previous 3 months.

#### **Kentucky Bluegrass**

For annual bluegrass control, **AMICARBAZONE WDG HERBICIDE** may be applied twice at 2.0 oz per acre at 10 to 21 day intervals in the spring months. Alternatively, apply **AMICARBAZONE WDG HERBICIDE** in the spring months at 1.0 oz **AMICARBAZONE WDG HERBICIDE/A**. Repeat the application at 7 to 14 day intervals for a maximum of up to 4 applications. Repeat applications should be made in an alternate direction to the previous application.

- Do not apply **AMICARBAZONE WDG HERBICIDE** to Kentucky Bluegrass when the daytime air temperature is expected to exceed 85° F, or for 14 to 21 days before or after application.
- Application of **AMICARBAZONE WDG HERBICIDE** to cool season turfgrasses exhibiting stress from adverse weather, pests, diseases, chemicals, mechanical injury or other related stress factors may increase the potential for unacceptable injury.
- Kentucky Bluegrass should be established for six months before application of **AMICARBAZONE WDG HERBICIDE**.
- Do not apply **AMICARBAZONE WDG HERBICIDE** to Kentucky ~~bluegrass~~Bluegrass that has received an application of products that contain mefluidide within the previous 3 months.

**AMICARBAZONE WDG HERBICIDE** may be tank-mixed with various recommended herbicides such as 2,4-D, MCP, dicamba or two and three-way herbicides that contain mixtures of 2,4-D, MCP, clopyralid, dicamba, fluroxypyr, or triclopyr to enhance control of emerged broadleaf weeds.

**AMICARBAZONE WDG HERBICIDE** may also be tank-mixed with preemergence herbicides for residual control of crabgrass species and other summer annual weeds.

Kentucky Bluegrass should be established for twelve months before application of **AMICARBAZONE WDG HERBICIDE**.

Do not apply **AMICARBAZONE WDG HERBICIDE** to Kentucky ~~bluegrass~~Bluegrass that has received an application of products that contain mefluidide within the previous 3 months.

### Warm Season Turfgrasses

For annual bluegrass and annual broadleaf weed control in established bahiagrass, bermudagrass, buffalograss, centipedegrass, kikuyugrass, seashore paspalum, St. Augustinegrass and zoysiagrass.

#### Annual bluegrass and annual broadleaf weed control.

**AMICARBAZONE WDG HERBICIDE** may be applied postemergence to tolerant warm-season turf at rates of 3.0 to 10.0 oz/A. (Follow specific instructions provided below for each turfgrass species.) **AMICARBAZONE WDG HERBICIDE** may be applied to warm-season turfgrasses that are dormant, partially dormant or actively-growing. NOTE: Do not use **AMICARBAZONE WDG HERBICIDE** on St. Augustinegrass in the summer months when air temperatures are greater than 90°F. When using low rates (3.0 to 5.0 oz/A), repeat applications are recommended but the maximum rate per year must not exceed 10.0 oz of **AMICARBAZONE WDG HERBICIDE**/A. Repeat applications should be made 14 to 21 days after the initial application.

**AMICARBAZONE WDG HERBICIDE** can be tank-mixed with labeled herbicides that contain metsulfuron, 2,4-D, dicamba or mixtures of 2,4-D, MCP, clopyralid, dicamba, fluroxypyr, or triclopyr to enhance control of emerged broadleaf weeds. If sedge species are present on the site, **AMICARBAZONE WDG HERBICIDE** can be tank-mixed with herbicides labeled for control of sedges. Consult the tank-mix partner label for turfgrass species tolerance, weeds controlled and maximum weed sizes at applications. Follow the most restrictive labeled timing between **AMICARBAZONE WDG HERBICIDE** and any tank-mix partner.

- Do not apply to turf under moisture stress. If necessary, irrigate before application to eliminate moisture stress.
- To minimize injury, irrigate with 0.1 to 0.2 inches water within 2 to 12 hours after each application.
- **AMICARBAZONE WDG HERBICIDE** may also be tank-mixed with preemergence herbicides for residual control of crabgrass species and other summer annual weeds.

#### Bermudagrass Tees and Fairways Overseeded in the Fall with Perennial Ryegrass or *Poa trivialis* (Roughstalk Bluegrass)

**AMICARBAZONE WDG HERBICIDE** may be applied at 5.0 to 10.0 oz/A one or more weeks before overseeding bermudagrass with either perennial ryegrass or *Poa trivialis* for control of emerged annual bluegrass.

#### **AMICARBAZONE WDG HERBICIDE APPLIED TO SEEDLING OR ESTABLISHED *POA TRIVIALIS* WILL RESULT IN SEVERE TURF INJURY.**

In early- to mid-spring months **AMICARBAZONE WDG HERBICIDE** at 2.0 to 4.0 oz/A may be used to control annual bluegrass and certain winter annual broadleaf weeds in bermudagrass overseeded the previous fall with perennial ryegrass. Make a second application 14 to 21 days after the first application. Delay the spring applications until perennial ryegrass is actively-growing and has recovered from winter-induced stress but no sooner than three to four months after seeding. Temporary injury to perennial ryegrass may occur for 1 to 2 weeks after application. Do not apply **AMICARBAZONE WDG HERBICIDE** to perennial ryegrass when the daytime air temperature is expected to exceed 85° F, or for 14 to 21 days before or after application. Application of **AMICARBAZONE WDG HERBICIDE** to perennial ryegrass exhibiting stress from adverse weather, pests, diseases, chemicals, mechanical injury or other related stress factors may increase the potential for unacceptable injury.

As there are numerous cultivars of perennial ryegrass as well as a wide range of clipping heights, end users are advised to determine perennial ryegrass tolerance on a small trial area on their site. Observe trial areas for two to three weeks after application. If injury is not considered adverse, then the remaining turf area may be treated. Do not apply **AMICARBAZONE WDG HERBICIDE** to emerged *Poa trivialis* unless the objective is suppress or remove it.

**AMICARBAZONE WDG HERBICIDE** may be tank-mixed with various recommended herbicides such as 2,4-D, MCP, dicamba or two and three-way herbicides that contain mixtures of 2,4-D, MCP, clopyralid, dicamba, fluroxypyr, or triclopyr to enhance control of emerged broadleaf weeds.

**AMICARBAZONE WDG HERBICIDE** may also be tank-mixed with preemergence herbicides for residual control of crabgrass species and other summer annual weeds.

Do not apply **AMICARBAZONE WDG HERBICIDE** to perennial ryegrass that has received an application of products that contain mefluidide within the previous 3 months unless severe injury and/or removal is acceptable.

#### **Crabgrass Species Control in St. Augustinegrass**

**AMICARBAZONE WDG HERBICIDE** at 3.0 to 5.0 oz/A may be used for the control of emerged blanket crabgrass and other crabgrass species (with the exception of India crabgrass) in established St. Augustinegrass. Apply this rate on a 1 to 3 week interval for up to three applications but do not exceed a maximum of 10.0 oz/A per year. St. Augustinegrass may be moderately injured by amicarbazone. Complete recovery will occur two to four weeks after the last application.

#### **Weed Control in Conifers in Nurseries and Field Plantings (including Christmas trees)**

**AMICARBAZONE WDG HERBICIDE** can be used over-the-top or as a directed spray under the canopy in conifer nurseries and field plantings (including Christmas trees). Apply **AMICARBAZONE WDG HERBICIDE** at 4 - 10.0 oz/A to actively growing weeds listed above. Repeat applications may be made but do not exceed 10.0 oz/A per year.

**RESTRICTION:** Do not use a mechanically pressurized handgun for application to Christmas trees.

## **STORAGE AND DISPOSAL**

**Do not contaminate water, food, or feed by storage and disposal.**

#### **PESTICIDE STORAGE:**

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If the container is leaking or material spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Dispose of pesticide as directed below. In spill or leak incidents, keep unauthorized people away. For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC (703) 527-3887 or (800) 424-9300.

#### **PESTICIDE DISPOSAL:**

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

#### **CONTAINER HANDLING:**

##### **Rigid, nonrefillable in containers small enough to shake (5 gallons or 50 pounds or less)**

**Nonrefillable container.** Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple Rinse as follows: Empty the remaining contents into application equipment or a mix-tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix-tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling if available or dispose of in a sanitary landfill or by incineration.

##### **Rigid, nonrefillable in containers too large to shake (greater than 5 gallons or 50 pounds)**

**Nonrefillable container.** Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple Rinse as follows: Empty remaining contents into application equipment or a mix-tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least ~~one~~ complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix-tank or store rinsate for later use or disposal. Repeat this procedure two more times. Offer for recycling if available or dispose of in a sanitary landfill.

##### **Fiber Drum with liner or Super Sack.**

**Nonrefillable container.** Do not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Offer for recycling if available or dispose of in a sanitary landfill or by incineration.

##### **Pouch in Container**

**Nonrefillable container.** Do not reuse this container for any other purpose. Offer container and foil pouch for recycling if available, or dispose of empty pouch and container in sanitary landfill or by other procedures approved by state and local authorities.

#### **Warranty and Disclaimer Statement**

~~The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of Arysta LifeScience North America, LLC, and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.~~

~~Arysta LifeScience North America, LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to Arysta LifeScience North America, LLC, and is subject to the inherent risks described above.~~

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#### **IMPORTANT INFORMATION READ BEFORE USING PRODUCT**

##### **CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

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[EPA APPROVAL DATE]

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